Application No. 10/079,338

## LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Withdrawn) An apparatus for supporting a multicast session over a wireless channel, the apparatus comprising:
  - a plurality of data ports;
  - a routing module that directs packets through the plurality of data ports and is a processor configured to perform the steps of:
  - (a) receiving a request that a wireless terminal wishes to join to at 1 ast one requested layer of a multicast service;
  - (b) receiving bandwidth requirements for the at least one requested layer;
  - (c) sending the bandwidth requirements to a node in order to configure the multicast session;
  - (d) receiving information about a number of layers that the wireless terminal can receive over the wireless channel; and
  - (e) configuring a multicast stream between a multicast content source and a base station through the routing module for the multicast session in esponse to step (d), wherein multicast content transported by the multicast stream is transmitted by the base station over the wireless channel in order to support the multicast session.
- (Withdrawn) The apparatus of claim 1, wherein step (b) comprises:
   receiving the bandwidth requirements for the at least one requested layer from the wireless terminal.
- 3. (Withdrawn) The apparatus of claim 1, further comprising a memory c mnected to the processor, and wherein step (b) comprises fetching the bandwidth requi ements for the at least one requested layer from a data structure that is contained in the memory.

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- 4. (Withdrawn) The apparatus of claim 1, wherein step (e) comprises the teps of:
  - (i) configuring the multicast stream in accordance with the information about the number of layers that the wireless terminal can receive in response to step (d);
  - (ii) adapting a transmission bandwidth in a core data network if the transmission bandwidth is not guaranteed in response to step (i).
- 5. (Withdrawn) The apparatus of claim 4, wherein step (ii) comprises the steps of:
  - (1) sending a pause request to an upstream router in order to disable forwarding packets, the packets being associated with a multicas group in response to step (i); and
    - (2) sending a resume request to the upstream router in order to enable forwarding the packets in response to step (i).
- 6. (Currently Amended) A wireless terminal that supports a multicast service over a wireless channel in a wireless communications system, the wireless terminal comprising:

a wireless interface;

a user interface module:

a memory:

- a processor that connects to the wireless interface in order to communicate over the wireless channel, connects to the user interface nodule for receiving input from a user of the wireless terminal, and that connects to the nemory, the processor configured to perform the steps of:
  - (a) sending a request that the wireless terminal wishes to join to at east one requested layer corresponding to a multicast group of the multicast ser ice;
  - (b) sending bandwidth requirements for the at least one requested layer in response to step (a)-;
  - (c) displaying a list of multicast services and receiving from the us of a first selection from the list of multicast services;
  - (d) receiving from the user a second selection for a desired level of multicast service for the selected multicast service and displaying the desired level of

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multicast service, wherein the desired level of multicast service con esp ands to a first multicast group address; and

- (e) displaying an actual level of multicast service, wherein the actual level corresponds to information about a number of layers that is currently supported over a wireless channel.
- 7. (Currently Amended) The wireless terminal of claim 6, wherein the processor is configured to provide the further step of:
  - (e)(f) sending signal quality information about a received signa over the wireless channel.
- 8. (Original) The wireless terminal of claim 7, wherein the signal quality information comprises at least one signal to noise measurement corresponding to the received signal over the wireless channel.
- 9. (Currently Amended) The wireless terminal of claim 6, wherein the p ocessor is configured to perform the further step of:
  - (d)(g) sending a notification that the wireless terminal desires to be disconnected from a multicast session.
- 10. (Canceled).
- 11. (Currently Amended) The wireless terminal of claim 106, wherein the processor is configured to perform the further steps of:
  - (h) receiving from the user a third selection for a desired level of multicast' service for the first selection and displaying a minimum level of multicast service, wherein the minimum level corresponds to a third multicast group address.
- 12. (Withdrawn) A method that provides transmission of a multicast sess on over a wireless channel in a wireless communications system, the method comprisin; the sleps of:

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- (a) receiving a request that a wireless terminal wishes to join to at least one requested layer of a multicast service;
- (b) receiving bandwidth requirements for the at least one requested layer;
- (c) sending the bandwidth requirements to a node in order to configure the multicast session:
- (d) receiving information about a number of layers that the wireless terminal can receive over the wireless channel; and
- (e) configuring a multicast stream in response to step (d), wherein ransported data is transmitted over the wireless channel in order to support the multicast session.
- 13. (Withdrawn) The method of claim 12, wherein step (b) comprises:
  receiving the bandwidth requirements for the at least one requested layer from the wireless terminal.
- 14. (Withdrawn) The method of claim 12, wherein step (b) comprises: fetching the bandwidth requirements for the at least one requested l; yer from a data structure.
- 15. (Withdrawn) The method of claim 12, wherein step (e) comprises the steps of:
  - (i) configuring the multicast stream in accordance with the information about the number of layers that the wireless terminal can receive in response to step (d);
  - (ii) adapting a transmission bandwidth in a core data network if the transmission bandwidth is not guaranteed in response to step (i).
- 16. (Withdrawn) The method of claim 15, wherein step (ii) comprises the teps of:
  - (1) sending a pause request to an upstream router in order to disable forwarding packets, the packets being associated with a multicart group in response to step (i); and
  - (2) sending a resume request to the upstream router in orde to enable forwarding the packets in response to step (i).

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- 17. (Withdrawn) computer-readable medium containing instructions for controlling a computer system to provide transmission of a multicast session over a wireless channel for a wireless communications system, the instructions performing the steps of
  - (a) receiving a request that a wireless terminal wishes to join to : t least one requested layer of a multicast service;
  - (b) receiving bandwidth requirements for the at least one requested layer;
  - (c) sending the bandwidth requirements to a node in order to configure the multicast session;
  - (d) receiving information about a number of layers that the wireless terminal can receive over the wireless channel; and
  - (e) configuring a multicast stream for the multicast session in response to step
  - (d), wherein multicast content transported by the multicast stream is transmitted over the wireless channel.
- 18. (Withdrawn) The computer-readable medium of claim 17, where n step (e) comprises the steps of:
  - (i) receiving information about at least one layer that is being transmitted to the wireless terminal; and
  - (ii) configuring the multicast stream to transport the at least one layer.
- 19. (Withdrawn) The computer-readable medium of claim 17, further comprising instructions that perform the step of:

receiving the bandwidth requirements for the at least one requested 1 yer from a wireless terminal.

20. (Withdrawn) The computer-readable medium of claim 17, further comprising instructions that perform the step of:

fetching the bandwidth requirements for the at least one requested layer from a data structure.

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21. (Withdrawn) The computer-readable medium of claim 17, further comprising instructions that perform the steps of:

configuring the multicast stream in accordance with the information about the number of layers that the wireless terminal can receive; and

adapting a transmission bandwidth in a core data network if the transmission bandwidth is not guaranteed.

22. (Withdrawn) The computer-readable medium of claim 21, further comprising instructions that perform the steps of:

sending a pause request to an upstream router in order to disable orwarding packets, the packets being associated with a multicast group; and

sending a resume request to the upstream router in order to enable forwarding the packets.

- 23. (Currently Amended) A method that provides transmission of a multic st session over a wireless channel for a wireless terminal, the method comprising the step. of:
  - (a) sending a request that the wireless terminal wishes to join to at least one requested layer corresponding to a multicast group of the multicast service;
  - (b) sending bandwidth requirements for the at least one requested la /er in response to step (a)-;
  - (c) displaying a list of multicast services and receiving from the use a first selection from the list of multicast services:
  - (d) receiving from the user a second selection for a desired level of pulticast service for the selected multicast service and displaying the desired level of multicast service, wherein the desired level of multicast service corresponds to a first multicast group address; and

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- (e) displaying an actual level of multicast service, wherein the ctual level corresponds to information about a number of layers that is currently supported over a wireless channel.
- 24. (Currently Amended) The method of claim 23, further comprising the step of: (e)(f) sending signal quality information about a received signal over the wireless channel.
- 25. (Currently Amended) The method of claim 24, further comprising the tep of:

  (d)(g) receiving at least one layer associated with the multicast session in accordance with the signal quality information in step (e)(f).
- 26. (Currently Amended) The method of claim 24, further comprising the step of:

  (d)(h) sending a notification that the wireless terminal desires to be disconnected from the multicast session.
- 27. (Original) The method of claim 24, wherein the signal quality information comprises at least one signal to noise measurement corresponding to the received signal over the wireless channel.
- 28. (Previously Presented) A method in a wireless terminal for displaying information about a multicast service supported by a wireless communications system, he method comprising the steps of:
- (a) displaying a list of multicast services and receiving a first selection from the list of multicast services from a user and;
- (b) receiving a second selection for a desired level of multicast ser ice for the selected multicast service from the user and displaying the desired level of multicast service in response to step (a), wherein the desired level of service corresponds to a first multicast group address; and
- (c) displaying an actual level of multicast service, wherein the actual level corresponds to a number of layers that is currently supported over a wireless of annel.

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- 29. (Previously Presented) The method of claim 28, further comprising the step of:
- (d) displaying a minimum level of multicast service in response to step (b), wherein a third selection for a desired level of multicast service for the first election is received from the user and wherein the minimum level corresponds to a third multicast group address.
- 30. (Currently Amended) A computer-readable medium containing instructions for controlling a computer system to provide transmission of a multicast session over a wireless channel in a wireless communications system for a wireless terminal, comprising instructions that perform the steps of:
  - (a) sending a request that the wireless terminal wishes to join to ut least one requested layer corresponding to a multicast group of a multicast service;
  - (b) sending bandwidth requirements for the at least one requested layer; and
  - (c) sending at least one signal to noise measurement corresponding to a received signal over the wireless channel.
  - (d) displaying a list of multicast services and receiving from the user a first selection from the list of multicast services;
  - (e) receiving from the user a second selection for a desired level of multicast service for the selected multicast service and displaying the desired level of multicast service, wherein the desired level of multicast service correst onds to a first multicast group address; and
  - (f) displaying an actual level of multicast service, wherein the ctual level corresponds to information about a number of layers that is currently supported over a wireless channel.
- 31. (Currently Amended) The computer-readable medium of claim 30, further comprising instructions that perform the step of:
  - (d)(g) sending a notification that the wireless terminal desires to be d sconnected from the multicast session.

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- 32. (Withdrawn) An apparatus for supporting a multicast session, the apparatus comprising:
  - a plurality of data ports;
  - a routing module that directs packets through the plurality of data ports and a processor configured to perform the steps of:
  - (a) receiving a request that a wireless terminal wishes to join to: t least one requested layer of a multicast service;
  - (b) receiving bandwidth requirements for the at least one requested layer;
  - (c) sending the bandwidth requirements in order to configure th: multicast session;
  - (d) receiving information about a number of layers that the wireless terminal can receive over the wireless channel;
  - (e) configuring a multicast stream between a base station and a multicast content source through the routing module in accordance with the information about the number of layers that the wireless terminal can receive in response to step (d);
  - (f) sending a pause request to an upstream router in order to disable forwarding packets, the packets being associated with a multicast group in response to step (e); and
  - (g) sending a resume request to the upstream router in order to enable forwarding the packets in response to step (e).